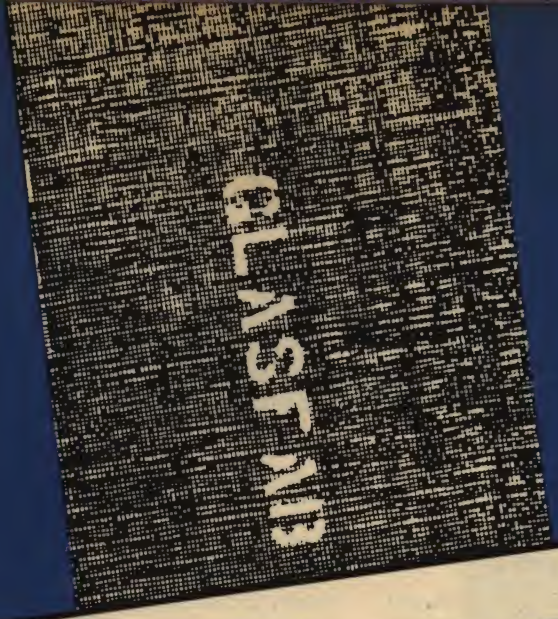


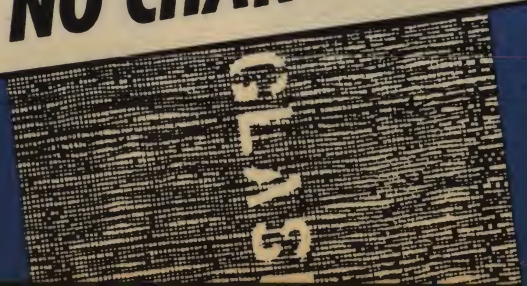
GLASFAB*

MADE OF FIBERGLAS†

THE NEW
INORGANIC
WATERPROOFING
MEMBRANE
FABRIC

OWENS-CORNING
FIBERGLAS
†

NO ROT • NO CHAR • NO WEAR • NO TEAR



*REG. U.S. PAT. OFF. PAT. PENDING

The LEXINGTON SUPPLY Co.
4815 LEXINGTON AVE.
CLEVELAND 3, OHIO

GLASFAB*

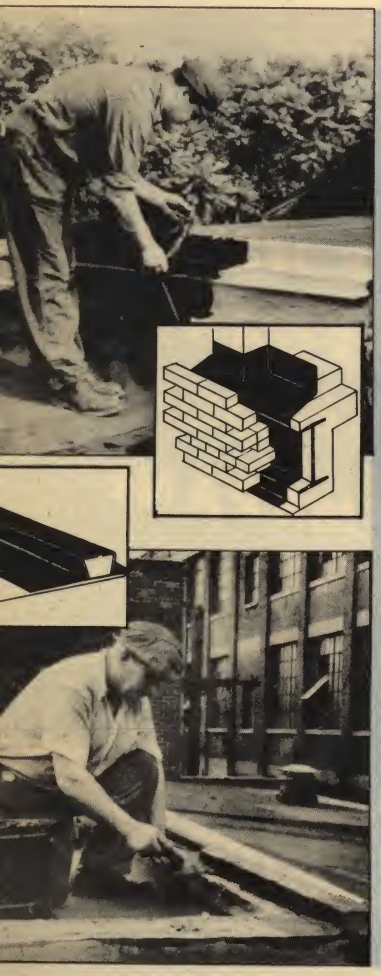
Any waterproofing membrane is only as strong and permanent as its reinforcing fabric. As long as the fabric is intact, the job stands up.

Heretofore the only fabrics available for this purpose were woven of cotton, jute or some other organic fiber.

Thus, the very strength of these fabrics is their weakness. Being organic, they are subject to all the forces constantly attacking such fabrics. Dampness leads to rot and decay. Wear and tear take their toll. Hot applications of tar or asphalt burn and char the fibers. The capillary or "wicking" action of the organic fiber carries moisture into the waterproofing composition and allows the escape of the volatile oils, thus weakening and shortening the usefulness of the entire membrane.

GLASFAB waterproofing membrane ends all this. It is a smooth, evenly woven mesh, made wholly of inorganic GLASS FIBERS. Being an "open" mesh it permits full penetration and impregnation by the waterproofing compound. Yet the fibers, being inorganic, resist all the destructive forces which commonly attack and shorten the life of all ordinary waterproofing membrane.

GLASFAB has been developed after intensive research and experiment and is woven wholly from inorganic glass fibers manufactured by the Owens-Corning Fiberglas Corp. The fabric, originated by the Lexington Supply Company is controlled by the Company's own rigid specifications and has a U.S. Patent Pending. Being inorganic, it is unaffected by hot bitumen, moisture, rot or decay. It possesses the highest strength-to-weight factor of any material used for waterproofing membrane specification work. GLASFAB is light in weight, easy to handle and is fully competitive in price with conventional organic fiber fabrics.



SPECIFICATIONS • APPLICATIONS

SCOPE OF WORK

The contractor shall furnish all labor and materials herein specified or shown on drawings for the proper completion of the following:

(List all areas where Glasfab is to be used)

MATERIALS

All waterproofing fabric shall be GLASFAB waterproofing fabric (specify type and size) as manufactured by the Lexington Supply Company, Cleveland, Ohio.

TYPE	SIZE
Asphalt Impregnated	(2" to 36" widths)
Coal Tar Impregnated	(2" to 36" widths)

All materials shall be delivered on the job in original package of manufacturer, seals unbroken.

GLASFAB Impregnated Membrane shall be applied at all areas to be waterproofed as specified, by first imbedding the fabric in a heavy bitumen mastic, followed by a second coating of mastic.

The fabric shall be applied without wrinkles or buckles and all coating shall be smooth and full.

The contractor shall apply the spandrel, lintel, flashing or wall waterproofing fabric as the masonry work progresses and work in full cooperation with the mason contractor so that there shall be no delay in the erection of the masonry work.

Details of typical waterproofing installations for spandrels less than 15 inches in depth are illustrated in Figs. 1 and 2. Waterproofing is continuous—full width of sheets.

For spandrels deeper than 15 inches, apply waterproofing fabric directly to the beam. Two things are accomplished—(a) the steel is completely protected, (b) sufficient space is allowed for a header brick course or anchors.

Figs. 3 and 4 illustrate the method used for a through-the-wall flashing application.

CAUTIONS

GLASFAB waterproofing fabric should be brought to within 1 inch of outer face of wall (see detail). Do not caulk this joint—allow moisture to escape.

Turn up cloth 6 inches around all columns, wind braces, etc., in exterior walls. (See detail A.)

Protect loose edge of fabric from all mortar droppings and damage, until wall has been built to a sufficient height to receive the fabric.

Prominent Users of *GLASFAB*

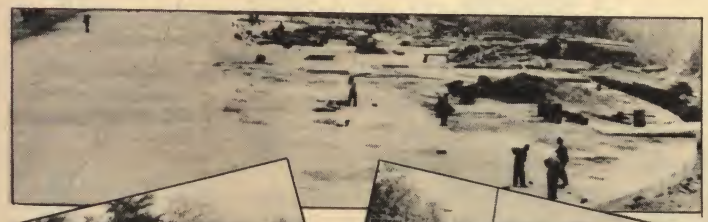
United States Government
Thompson Aircraft Products Company
General Motors Corporation
United States Steel Corp.
New York Central Railroad
General Electric Company
California Fruit Growers Exchange
American Structural Products Co.
United Gas Pipe Line Co.
B. F. Goodrich Research Laboratory
City Ice and Fuel Co.
Owens-Corning Fiberglas Corporation
Willard Storage Battery
Fort Stanton Reservoir
Ohio Bell Telephone Co.
Republic Steel Corporation
Studebaker Corporation
Swift and Company
Toledo Edison Co.
Wheeling & Lake Erie Railroad
American Car & Foundry Co.
Cleveland Electric Illuminating Co.

Wide Variety of Uses

GLASFAB is versatile, lending itself to a wide variety of applications. A few are listed below, reports on other types of application are constantly being received.

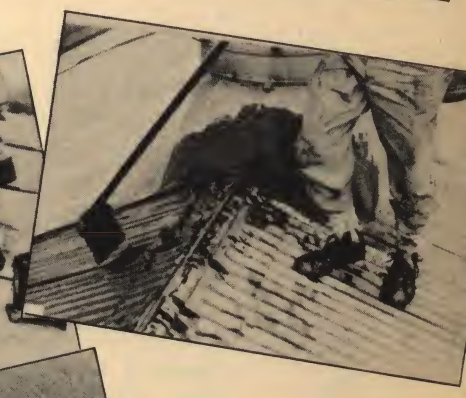
- Bridges
- Canal Construction
- Cellar Waterproofing
- Commercial Buildings
- Dam Construction
- Docks
- Highway Construction
- Industrial Buildings
- Maintenance and Repair
- Municipal Projects
- Navy Department
- Pipe Lagging
- Pipe, Valve and Fitting Waterproofing
- Public and Private Utilities
- Railroad Bridges and Buildings
- Reservoirs
- Retaining Walls
- Roof and Wall Flashing
- Sewer Projects
- Sidewalk Waterproofing
- Steamlines (under and above ground)
- Steamship Companies
- Subways and Tunnels
- War Department
- Waterworks
- United States Government Agencies

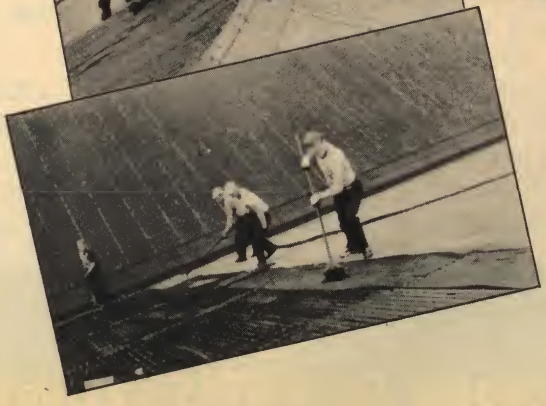
Studebaker Corporation, Empire Steel Division, Mansfield, Ohio. GLASFAB rolled into corrugations of old metal roof. Applied also as flashing on ventilators.



Fort Stanton Reservoir, Washington, D.C. GLASFAB used as reinforcing on concrete roof of reservoir. Note novel method of waterproofing expansion joints to prevent infiltration of surface water.

Willard Storage Battery Co., Cleveland plant. GLASFAB ends waterproofing failures on monitors.





American Structural Products Co., Muncie, Ind., subsidiary of Owens-Illinois Glass Co. GLASFAB applied as reinforcing by cold spray method to corrugated steel roof.

Toledo Edison Co., Toledo, Ohio, adds extra protection to valves and fittings on underground steam line.

ADVANTAGES OF GLASFAB*

GLASFAB is a smooth, evenly woven mesh made wholly of INORGANIC GLASS FIBERS. Being an "open" mesh it permits full penetration and impregnation by the waterproofing compound. Adheres tightly to the surface and will not slide in a vertical position if fully imbedded in the bitumen.

WATERPROOF: GLASFAB fibers are not affected by water, even when in continuous contact.

NO ROT: Being wholly inorganic, GLASFAB is impervious to dampness and fungus. It cannot rot or decay, thus holds its strength throughout the life of the application.

NO CHAR: Unaffected by heat, GLASFAB will withstand hot applications of tar or asphalt up to 1000° F. Unlike ordinary fabrics, the fibers do not char but retain full strength for the life of the application.

NO WEAR AND TEAR: GLASFAB fibers are tough and durable. The fibers resist the strain and tension caused by even the slightest expansion and contraction of the masonry wall to which the fabric is applied. Their original strength is their ultimate strength.

NO WICKING: Being inorganic, there is no capillary or "wicking" action. Unlike ordinary organic fibers, no volatile oils are carried to the surface of the waterproofing compound. Thus the compound does not "dry out" and lose its elasticity. On the other hand, no moisture is carried down into the compound to rot the fibers and shorten the life of the fabric.

WEIGHT: GLASFAB weighs but 1/5 to 1/4 as much as ordinary organic fabrics. A 50 sq. yd. roll of GLASFAB weighs only 8 lbs. while a 50 sq. yd. roll of organic fabric averages better than 38 lbs. or 4 to 5 times as much. GLASFAB fabric weighs but 2.2 ozs. per sq. yd. Thus GLASFAB is 4 to 5 times easier to haul, carry, handle and apply. The pick-up factor, when fully loaded is 424%.

Organic Fabric
40,000 lb. Car
1,100 Rolls
55,000 Sq. Yds.

GLASFAB
40,000 lb. Car
5,000 Rolls
250,000 Sq. Yds.

GLASFAB equals or excels all standard waterproofing fabric specifications.

STRENGTH - TO - WEIGHT FACTOR: GLASFAB has the highest strength to weight factor of any material used for waterproofing specification work. The warp has a strength factor of 64 lbs. per inch wide strip and the fill 92 lbs. per inch wide strip. Thread count is 24 threads per inch for both warp and fill.

SPECIFICATIONS: GLASFAB requires no special tools or equipment; applied by the same methods and under the same specifications as any waterproofing membrane fabric.

GLASFAB can be used with any accepted waterproofing compound.

COSTS NO MORE: GLASFAB is fully competitive in price with any specification waterproofing membrane fabric and costs less to apply because it is lighter and easier to handle.

Digitized by:

ASSOCIATION
FOR
PRESERVATION
TECHNOLOGY,
INTERNATIONAL
www.apti.org

BUILDING
TECHNOLOGY
HERITAGE
LIBRARY

https://archive.org/details/buildingtechnologyheritagelibrary

From the collection of:

Carol J. Dyson, AIA